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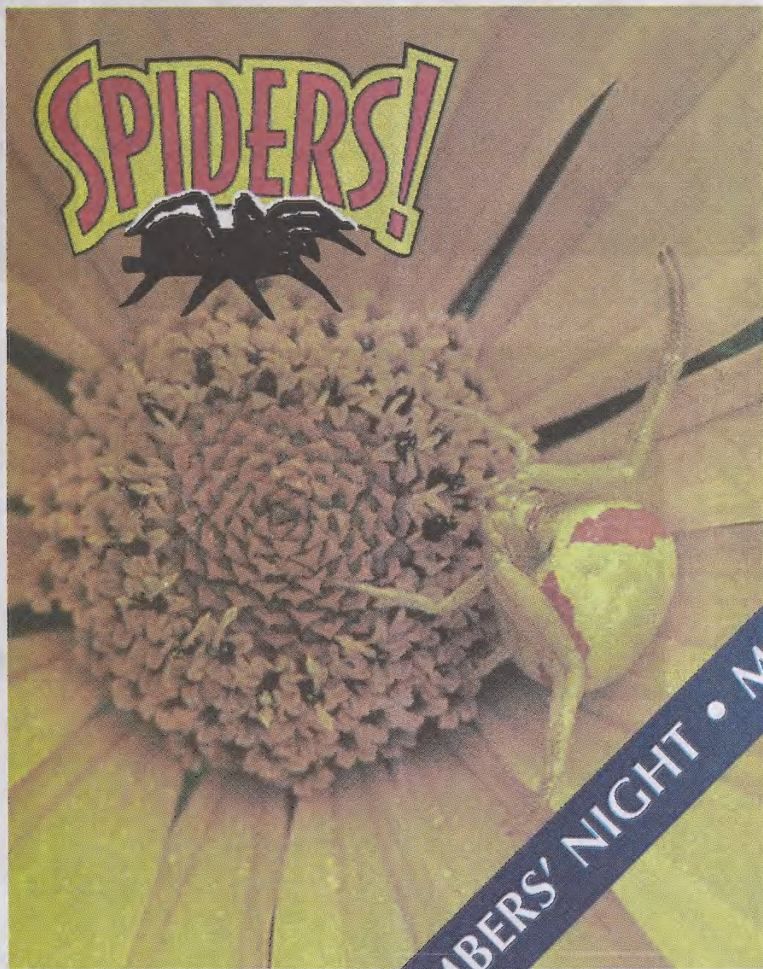
MAY 17 1996

LIBRARIES

In the Field

The Bulletin of The Field Museum

May/June 1996



MEMBERS' NIGHT • MAY 3

In the Field

The Bulletin of The Field Museum

May/June 1996

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The Field Museum
Exploring
The Earth And Its
People

The Museum's annual Spring Symposium examines the Andes from many angles.

5-8

A complete schedule of May/June events, including special programs around "Spiders!" the exhibit.

10

A unique experiment in interactive video brings kids from four states to "Life Over Time"

VOLUNTEERS AS 'VALIDATORS' OF MUSEUM

Museum volunteers in education, collections, research, and other areas are honored at an annual dinner. Trustee Hugo Melvoin told them they "validated" the work of the Museum's staff and Trustees. [Article, Page 11](#)



CHICAGO WILDERNESS

A consortium of 34 Chicago-area scientific institutions, conservation organizations, and government agencies has announced the formation of the Chicago Region Biodiversity Council, which will pursue dozens of projects collectively entitled the Chicago Wilderness Project to restore and expand the native ecosystems of southeastern Wisconsin, northern Illinois, and northwestern Indiana.

Near Chicago, small pockets of native tall-grass prairies, oak savannas, woodlands, and wetlands survived the 19th-century development of large-scale agriculture, the introduction of exotic plants and animals, and the 20th-century march of urbanization and suburbanization. While these biological communities now occupy less than one percent of their pre-European-settlement acreage and some species have already become extinct, the remaining biodiversity nevertheless makes the Chicago region one of the most important assemblages of rare and threatened species in the world. [See Peter Crane, "Biodiversity in Metro Chicago," In the Field, March/April 1996, p.10.]

Field Museum scientists, especially Debra K. Moskovits, head of the Museum's Office of

Environmental and Conservation Programs, were among the initiators of the discussions that led to Chicago Wilderness. After nearly two years of negotiations, the organizations were able to announce formation of the Council at a news conference in Stanley Field Hall on April 10. In the interim, however, the participating institutions have begun work on 28 individual restoration, conservation, survey, and educational programs. Additional projects will be announced as they are approved by the Council.

Organizers are optimistic that Chicago Wilderness will achieve World Biosphere Reserve status in the next few decades. As a result of historical accident, turn-of-the-century greenbelt planning, and more recent conversions and acquisitions like the Midwestern Prairie,

(Continued on page 3)



John Weinsien / GNE778.30C

MC CARTER IS NAMED NEW PRESIDENT OF FIELD MUSEUM

By Ron Dorfman
Editor, In the Field

The Museum's Board of Trustees has named John W. McCarter, Jr. to succeed Willard L. Boyd as president of the Museum effective October 1. McCarter, 58, is currently a partner in the Chicago-based management consulting firm Booz Allen & Hamilton and serves on the boards of the University of Chicago and WTTW Channel 11, of which he is chairman. Boyd, 69, former president of the University of Iowa, has led The Field Museum since 1981.

As a boy in Chicago, McCarter developed an interest in anthropology — especially Egyptian mummies — during visits to The Field Museum, but pursued studies at Princeton, the London School of Economics, and business management at Harvard, where he received his M.B.A. in 1963. But he always kept a toe in scientific waters and later became president of the

high-tech agribusiness firms DeKalb-Pfizer Genetics and DeKalb Corporation. At the University of Chicago, he chairs the Biological Sciences and Health Care Committee of the Board of Trustees and the Visiting Committee to the Division of Physical Sciences. These, he noted, "are the two divisions of the University that are most closely associated with The Field Museum, so I [have] the perspective of the importance of the Museum to the University."

One of the things that intrigued him when he was confronted with the possibility of heading up the Museum, he said, was that, while it is a scientific organization with an important presence in national and global arenas, it is also an institution that intimately impacts the lives of the people of Chicago. "I have been involved an awful lot with this community over the years," McCarter said. "We [at Booz Allen] have worked for the Chicago Transit Authority, we've worked for the Chicago Board of Education, we've worked for the Police Department

(Continued on page 2)

Above: A controlled burn to help restore native growth at the Waterfall Glen Forest Preserve in DuPage County. At left: Debra K. Moskovits, head of the Museum's Office of Environmental and Conservation Programs, with Benjamin Tuggle, director of the Illinois field office of the U.S. Fish & Wildlife Service and chair of the Chicago Region Biodiversity Council.

John McCarter addresses the Museum staff in the Founders' Room. At right are Leo Mullin, chairman of the Museum's board of trustees, and President Willard L. Boyd.



RETHINKING THE PEOPLING OF THE AMERICAS

Deep in the Brazilian Amazon, an international team headed by a Field Museum archaeologist has discovered new evidence of ancient human cultures. Their findings may change our understanding of the peopling of the New World and shed light on the role of tropical forests in human evolution.

Anna Roosevelt, the Museum's Curator of Archaeology and Professor of Anthropology at the University of Illinois at Chicago, led the team that excavated Caverna da Pedra Pintada, a

cave on the north bank of the Amazon in Monte Alegre, Brazil [see map, page 9]. The work was published in the April 19 issue of *Science* magazine and featured on the front page of *The New York Times* the same day.

In the lowest levels of the cave, the researchers found evidence of early human habitation — including cave paintings, stone spear points, and the carbonized remains of fruit, wood, and animals — dating back more than 11,000 years. The paintings depict humans, ani-

(Continued on page 9)



John Weinsien / GNE778.28C

PEOPLE, NOT STRUCTURES, MAKE A MUSEUM



By Willard L. Boyd
President, The Field Museum

People not structures make great museums. When we think of great museums we think of heroic structures, and the inanimate objects exhibited in galleries. In reality museums are about people and their ideas. The objects of nature give rise to human ideas about nature. Human ideas give rise to cultural objects.

The basic mission of The Field Museum is to generate new knowledge and understanding based on encyclopedic collections of environmental and cultural objects. In doing so we study the evolution of nature and human interaction. We apply the scientific method to biological, geological, and anthropological diversity and change. We push out the frontier of human knowledge about the world's cultures and environments. In addition to science we are deeply involved in humanistic and artistic exploration. We think of ourselves as a secular institution; yet we are a sacred place reflecting many human spiritual beliefs. We are a place of human inquiry.

Like the cultural and natural evolution we study, the Museum itself evolves. The Museum changes in the context of its own cultural tradition. As in natural evolution, there are moments when the Museum changes more rapidly than at other times. As in natural and cultural evolution there is a constant tension and disequilibrium in the Museum as we make progress in the push and pull of human change. We need to understand and appreciate the phenomenon of conflicting ideas and views about nature, culture, and institutional goals. Our Museum is the forum for evolving ideas.

Our new President, John W. McCarter, Jr., understands how people and their institutions evolve. Based on his experience and his sensitivity to people, he is uniquely qualified to draw us together as we pursue learning in our second century. His qualities are many and exceptional. Two are of very special importance to our Museum at this time. He has a deep intellectual appreciation and commitment to research in the biological and soil sciences, which represent a major thrust of the Museum's biological efforts in the coming decade. As a young person grow-

ing up in Chicago, John frequented The Field Museum and came to understand the significance of anthropology and the study of cultures to our mission.

John combines a commitment to research with a special understanding about public learning outside of the classroom gained as chairman of the Board of WTTW, Channel 11. To his understanding of research and public learning John McCarter brings extraordinary awareness of how human institutions such as The Field Museum evolve. This was clear in his com-

ments to staff and volunteers when he was introduced to them by our Board Chairman, Leo Mullin.

John spoke specifically of his past association with the Museum and how much it has meant to him. In terms of the future he said, "I must learn from you so that we can work together to build an even stronger Museum in our second century." For all of these reasons and many more John McCarter is an inspired choice to be the President of The Field Museum. He knows that people not structures make a great museum.

NEW PRESIDENT . . .

(Continued from page 1)

— community-based policing is work that we did with the Mayor's office. In my time with state government [he was budget director in the administration of Gov. Richard Ogilvie] I spent a lot of time in Chicago and of course with Channel 11 I'm out in the community a lot."

Bill Kurtis, a Field Museum trustee whose documentary production company produces many programs for Channel 11, observed that the Sunday before the announcement of McCarter's appointment as president of the Museum, "he was out at a little Channel 11 fundraiser in Hinsdale — even though he's going to have to resign [as chairman of WTTW]. He makes a practice of attending almost every event that WTTW participates in."

McCarter said that when a recruiter for Spencer Stuart, the search firm engaged by the Museum, called him late last year "she was very wise, because she said, 'I don't want you to say No out of hand and I'm leaving the country; I'll be back in four weeks.' So she left me stewing and I started to go to the Museum and prowl and look at exhibits and watch people. I checked to see what was on the Internet at the [World Wide] Web site and read the materials that Sandy [Boyd] had sent over. And by the time she got back four weeks later I was very intrigued. . . .

"I was fascinated by the exhibits. We had made a program at WTTW on the making of the 'Africa' exhibit, so I was well aware of that one. I'd been through 'Life Over Time,' and the one where the prairie and the deer are, the 'Nature Walk' . . . I'd been through those recently. I had not been through the reconstructed Egypt ['Inside Ancient Egypt'] which I found to be fascinating. I just thought that is an elegant exhibit. Some of the others I said to myself I would have done this differently and that differently. But I really spent more time watching the people go through the exhibits, to try to understand the kind of impact they were having on families and kids."

One of his conclusions, McCarter said, is that while the Museum is "a terrific place," he thinks "there's a lot that can be done in making it more user-friendly. I know [the staff] are working on the signage, which I think is critical. I think people have done interesting things on thinking about curriculum. I think repeat visits are essential, I think comfort is important. I think avoidance of fatigue is important."

"When I go into a museum, if I'm not selective I get tired walking through galleries. I was in the Metropolitan Museum before Christmas in New York and was with a friend; we had a set of specific

things that we wanted to see. And it was terrific. We were there for two hours, we had lunch, and saw a couple more things on the way out and it was a wonderful visit. By contrast,

on occasion I will try to see everything.

"You know, one of the ways of trying to think about the relation of the Museum to the community is, how often would we aspire to have families come to the Museum and how could we make it an attractive destination for them? And particularly now, with what's going on with the development of the campus for the three museums there. [See below left.] How do you mix and match going one day to the 'Egypt' or 'Life Over Time' exhibit, say two exhibits at the Field, with an Oceanarium [at the Shedd Aquarium] and a Planetarium [visit]? That could be enough, with feeding people and making sure they have [a structured experience]."

At Booz Allen, which specializes in strategic-planning consultation for corporations and government agencies, McCarter is among the senior strategists. The Field Museum has recently completed a years-long planning process, issued a Strategic Plan document, and begun a \$60-million campaign to support the plan. McCarter sees it as a plus that he will not have to engage in this kind of planning at the beginning of his tenure.

"Clearly the Museum is strong in terms of its outreach, in terms of its academic and scientific base, its relation to the community. So I think my first-year challenges are two: One is to understand the institution and get to know the people. The second is to work on the implementation of those efforts that are already under way, and clearly the fund campaign will be central to that. I've already had an opportunity to meet with the team on the 'Life Underground' exhibit [which will explore soil sciences and organisms] . . . and that would be about as far as I've taken an agenda for the first number of months that I'll be there."

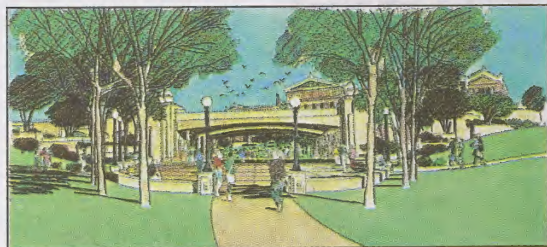
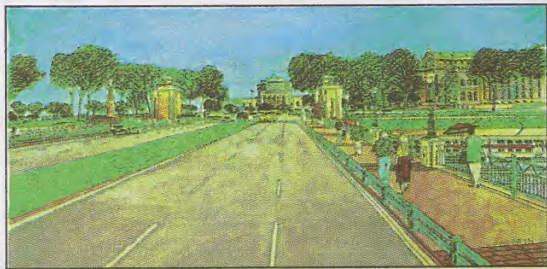


John W. McCarter, Jr.

Although navigating Lake Shore Drive and accessing the museums is currently a mess, by the Spring of next year things ought to look something like these renderings by San Francisco landscape architect Lawrence Halprin. The top picture shows the extension of Roosevelt Road east toward the Shedd Aquarium; at bottom is a pedestrian parkway leading to The Field Museum.

LAKE SHORE DRIVE:

WAIT'LL NEXT YEAR



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The Field Museum
Exploring
The Earth And Its
People

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WILDERNESS . . .

(Continued from page 1)

formerly the Joliet Arsenal, the area encompasses more than 200,000 acres of protected natural land. The small plots that currently exist will be expanded by restoring surrounding lands in natural areas, and managed for their value in maintaining biodiversity. Where possible, these plots will be connected to form a continuum of

native ecosystems along the region's waterways and in its parks and forest preserves. Educational outreach efforts will encourage private landowners and developers to transform their own properties into prairies, savannas, and woodlands.

At Swallow Cliff Woods, which covers 800 acres of the Sag Valley portion of the Cook County Forest Preserve District in the southwestern part of the county, clearing of non-native brush and controlled burning are well under way to restore native prairies and savannas. At the site, Field Museum scientists are leading a group of researchers from the Illinois Natural History Survey, the Nature Conservancy, and the Forest Preserve District in documenting, for the first time, the impact of current management practices on different groups of



John Weinstein / GN87790.26c

organisms, including vital soil-associated species, in order to gauge the success of the restoration effort. The biologists are inventorying populations of fungi, insects, birds, and other groups in a fire-suppressed oak-woodland community before and after management through brush removal and burning. The project will identify species that can serve as reliable ecological indicators for rapid assessment of the restoration and management efforts.

More than 5,000 private citizens are volunteering in a variety of capacities to support Chicago Wilderness projects. Persons wishing to volunteer with Field Museum components of the Project may call Anita Morgan, the Museum's Searle Volunteer Coordinator, at (312) 922-9410, ext. 360.

— Ron Dorfman



John Weinstein / GN87790.10c

Top: Field Museum curator Greg Mueller, a specialist in mushrooms and related fungi, explains some of the Chicago Wilderness research work to journalists on the bus to Swallow Cliff Woods. Left: A Forest Preserve worker shows off the District's new Seppi Midiforst mower, capable of turning a seven-foot-wide swath of brush, weeds, and small trees to mulch. Below: At a reception for Chicago Wilderness in Stanley Field Hall, President Boyd (center) chats with Harry Chandler, a member of the Founders' Council, and Wendy Paulson, a member of the Board of Governors of the Nature Conservancy.

MULTIDISCIPLINARY SYMPOSIUM ON THE ANDES

The Andes Mountains are among the richest regions on the planet in their diversity of organisms, human cultures, climates, and geology. The interactions among these elements also make the Andes one of the most dynamic and important global eco-regions to study. The Museum's Spring Systematics Symposium on Saturday, May 11 will examine the ontogeny of the physical structure of the Andean Cordillera and associated climates in relation to their impact on the evolution and biogeography of Andean flora and fauna over time.

Similarly, the Symposium will integrate the human perspective: How humans have changed the physical topography and local environments in ways that have influenced patterns of biodiversity, as well as how climate, geology, and biotic diversity have influenced human activities.

The essential goal of the Symposium is to integrate the biological with the physical and the human elements to shed light on the dynamics of the entire system: inferring processes from past and present patterns over a variety of time scales (thousands, tens of thousands, millions, and tens of millions of years).

These insights will also generate more realistic predictions of the range of future changes possible as humans and the remaining biota interact dynamically with the physical environment. Although a synthesis has never been attempted for this complex region, much new information is available. When this information is assembled, it will pave the way for future research in this crucial region.

The Andes have long been the focus of research by Field Museum scientists, inspiring the interdisciplinary nature of this event. The symposium will bring together colleagues from throughout the United States and South America, and will provide a vehicle for highlighting a

critically significant but overlooked region for the educational communities that typically attend the Spring Systematics Symposium (from the Chicago area, the surrounding Midwest, and elsewhere in the U.S. and abroad). The general public is invited; cal (312) 922-9410 ext. 293 or e-mail symposia@fmnh.org.

This symposium builds on last year's extremely successful event focusing on environmental and biotic change in Madagascar. Among the scheduled speakers are:

Victor Ramos, Universidad de Buenos Aires
John Flynn, The Field Museum
Paul Colinvaux,
Smithsonian Tropical Research Institute
Lonnie Thompson, Byrd Polar Research Center,
Ohio State University
Michael Binford, Harvard University
Anna Roosevelt, The Field Museum
Charles Stanish, The Field Museum, and
Alan Kolata, The University of Chicago
Michael O. Dillon, The Field Museum
Shannon Hacked, John Bates,
and Doug Stotz, The Field Museum
John Lundberg, The University of Arizona



Diane Alexander White / GN87785.354c



John Weinstein / GN87782.19c

A special Andes exhibit, highlighting The Field Museum's collections and research programs in paleontology, botany, anthropology, and zoology, is on view in the Museum's Searle Lounge on the north mezzanine level.

ANDES EXHIBIT



Diane Alexander White / GN87785.244c

ASIAN EXPERTS HIGHLIGHT CERAMICS MEETING

Special presentations by authorities on ceramics from China and Japan will mark the second annual conference on "Asian Ceramics: Functions and Forms." The May 24-26 conference, co-sponsored by the Museum's Department of Anthropology and the Asian Ceramics Research Organizations, focuses on the effect of daily life activities, ritual, and collecting on the design of Asian ceramics over the years.

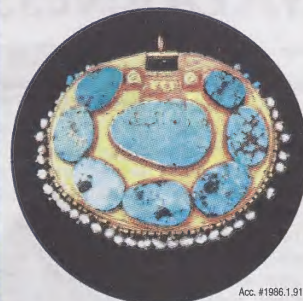
Wang Qingzheng, deputy director of the new Shanghai Museum and author of the definitive *Underglaze Blue and Red*, will deliver a paper May 25 on "Chinese Ceramics and Tea- and Wine-Drinking Customs." He has previously served on the National Committee on Art Authentication and as adjunct professor at Shanghai University and Fudan University, also in Shanghai. His research interests include Chinese coins, ceramics, and calligraphy.

Shinichi Fukagawa of Koransha Inc. in

Japan, a leading Asian ceramics factory, will present a luncheon lecture in the Founders' Room on May 26. The Fukagawa family has been producing ceramics since the 17th century in Kyushu when porcelain was introduced to Japan. The family established Koransha Inc. in 1875 and was soon earning gold medals at expositions in the United States and Europe. One of the company's distinctions is that over the years it has adapted international art styles to the design of both traditional Japanese and Western table wares and altar pieces.

Other speakers at the conference include scholars and collectors from Thailand, the Philippines, the Netherlands, Korea, Hong Kong, Canada, France, and the U.S.

For information and reservations, call the Department of Anthropology at (312) 922-9410, ext. 832 or 444, or fax a message to (312) 427-7269.



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COLLECTIONS COMMITTEE TOURS SAUDI TROVE

Virginia Heaven, curator of the Haifa Faisal Collection of Traditional Saudi Arabian Arts, hosted a fascinating tour, lecture, and reception for members of the Museum's Collections Committee on February 27. The Collection is housed at 1255 S. Wabash Avenue in Chicago and may be viewed by appointment. Shown above is a woman's headdress ornament from Nadi, made of gold-plated metal, set with turquoise stones, and edged with seed pearls.

MEMBERS' PROGRAMS

'SPIDERS!' VIEWING NIGHTS

Two special Members' Viewing Nights to see "Spiders!" have been scheduled for Wednesday, June 19 and Thursday, June 20 from 5 p.m. to 8 p.m. (These are the only times that members can see this fascinating touring exhibit without paying the special admission fee of \$1 per person.)

Because we expect record crowds, the Membership Department requests that members attend the Members' Viewing Nights alphabetically by surname, if possible.

Surnames beginning with:

A - L on June 19, 1996

M - Z on June 20, 1996

Individual members may bring one guest. Family members may bring members of their immediate households. All entrances to the Museum will be open. Visitors will be asked to present their membership cards or invitations at the door, and will be issued a ticket for timed entry to the exhibit.

The Spider Show will be open from 5 p.m. to 7:45 p.m.

Disabled persons may make special arrangements by calling (312) 922-9410, ext. 453. Bus service to the Museum from the north is available on the CTA Marine/Michigan No. 146 and from the south on the CTA Jeffery Express No. 6. Parking is free in the Museum lots.



MEMBERS' WINE TASTING SERIES THE WINES OF ITALY

Join us on June 12, 6:30 p.m. - 8:00 p.m., for a tasting of Italian wines led by Mary Ross, director of The Wine Academy of the North Shore and a nationally recognized authority on wine and food. The modern wines of Italy — the fastest-growing import category in the U.S. today — are direct descendants of wines tasted by Michaelangelo and Galileo. Taste six wines from prominent regions and discuss Italy's colorful culture of winemaking.

Paid reservations are required. Tickets are \$20 for members and \$25 for guests. Charge by phone at (312) 922-9410, ext. 453 or mail checks to: Membership Department, The Field Museum, Roosevelt Road at Lake Shore Dr., Chicago, IL 60605. Space is limited.

SPECIAL THEATER OFFER

The Shubert Theatre is offering Field Museum Members a discount of \$10 off the price of tickets for three performances of *How to Succeed in Business Without Really Trying* at The Shubert Theatre, June 11 and 12.

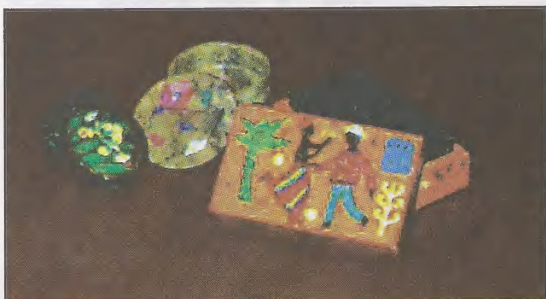
Ralph Macchio (of *Karate Kid* fame) stars in the role of J. Pierrepont Finch, a young window washer at a giant corporation who climbs from the mailroom to the boardroom. Along the way, he gets the girl, the money, and nearly gets the boot — all the while following the instructions of a guidebook entitled "How to Succeed in Business Without Really Trying."

Performances are Tuesday, June 11 at 7:30 p.m. and Wednesday, June 12, at 2 p.m. and 7:30.

To receive a \$10 discount on tickets, visit the Shubert Theatre box office or call Ticketmaster at (312) 902-1500 and ask for a T-Type Ticket. Offer expires May 30, 1996.



During Members Night, Friday, May 3, the main store will again hold an Amber Trunk Show featuring new 14k gold designs by Elizabeth Ford who will be on hand to help with your selections. Mrs. Ford will also custom design amber pieces for you.



The Shops of The Field Museum

Enhance your Mother's Day gifts this year with FREE gift wrap from the Museum Shops. We'll give you a pastel shopping bag and printed tissue at no charge on an array of selected items purchased in the main store from April 29 through May 12.

Included are:

- A variety of hand-made Japanese walis
- A collection of very special hand-made inlaid soapstone and papier-mâché boxes from India (pictured at left)

- Hand-strung African multi-colored "Christmas" bead necklaces
- Amber heart pendants on silk cords
- Hand-carved soapstone animals
- Hand-tooled and -painted leather boxes and purse accessories from India

For Mother's Day, graduation, bridal shower and wedding gifts, you'll find the unusual, the unique, the exotic in:

The Shops of The Field Museum

Open daily from 10 a.m. - 5 p.m.
Members receive a 10% discount on all purchases

CALENDAR OF EVENTS

By Rhonda Jones

The special summer exhibit, "Spiders!" examines the lifestyles of one of nature's most fascinating and feared creatures and traces its role in nature as well as its relationship with humanity. The exhibit puts spiders on a level playing field with other organisms, showing how arachnids deal with the universal basics that all living creatures face—finding food, mating, producing offspring, and defending themselves against predators.

The first four days of the exhibit's opening (May 24-27) carry a full schedule of performances and activities—including a visit from the superhero, Spider-Man, in person. During Green Light Theater's presentation, audience members will explore and decipher some of the wonders of spider life. Spiders will be the subject of folktales, passed along by storyteller, Shanta, in her story about Anansi the spider-hero, "Spiders!" will illustrate how different



SPECIAL PROGRAMMING

Friday, May 24

11:00 a.m. Green Light Theater presents "Spiders!" The performance looks at the lifestyle of a spider and engages the audience in figuring out some of the perplexities of spider life.
10:00a.m.-1:00p.m. Field Museum scientists talk about spiders.

Saturday, May 25

Noon "Spiders!" by Green Light Theater
1:00p.m. Storyteller Shanta tells tales of Anansi, a spider-hero among the Akan people of West Africa.
11:00a.m.-3:00p.m. Julia Brownwolf describes the spider according to traditions of the Native American Lakota people. Field Museum scientists talk about spiders.

Sunday, May 26

Noon "Spiders!" by Green Light Theater
1:00p.m. Shanta tells stories of "Anansi"
11:00a.m.-3:00p.m. Julia Brownwolf. Field Museum scientists discuss spiders.

Monday, May 27 (Memorial Day)

Noon "Spiders!" by Green Light Theater
1:00p.m. Shanta tells stories of "Anansi"

cultures view arachnids. Julia Brownwolf will explain the world of spiders according to the Lakota people of North America.

Using information from research conducted by the Museum's spider specialist, Petra Sierwald, and the Museum's vast spider collection, "Spiders!" is sure to add to the public's knowledge of the eight-legged creatures.

Sierwald's work will become public knowledge in the exhibit's Spider Lab, which chronicles the steps she takes in researching and studying spiders. "Spiders!" visitors will follow Sierwald (or life-size cut-outs of her) in a recreation of her laboratory, as she goes from collecting actual spider specimens from their natural habitats to separating, sorting, classifying, and storing them at the Museum.

The Museum has also planned a full schedule of summer programs, including daily spider activities and special weekend programs.

The dinner-plate-size Madagascar orb weaver will be on display along with the poisonous brown recluse and black widow spiders. The latter two are found in the Chicagoland area.

The carnivorous creatures that man loves to

At left, the garden orb weaver spider.



FIELD MUSEUM
THE SMART WAY TO HAVE FUN.

hate are actually harmless—except, of course, for the infamous black widow and funnel web spiders. The black widow is notorious for her deadly romantic ways of killing her male counterpart. But, on the whole, spiders are beneficial in that they eat billions of disease-laden insects like flies and cockroaches.

Spiders have a unique way of getting around in their world. The hairs on their body serve as their primary sensory faculty, helping them to see and to feel. Spiderize!, an element of the exhibit, will look at life from a spider's perspective.

A spider's web is a critical tool used to help sustain itself. Unknowing insects walk right into a spider's web and the spiders inject the "catch" with venom to immobilize it and secrete special proteins which liquefy the prey; later the spider sucks the insect up. Whether or not a spider uses its web-weaving talents to catch prey or to protect its eggs depends on its sex and species. The silk it uses to create the web is a liquid protein stored in the spinning glands of the spider's abdomen. As it comes out of the spinnerettes, the silk hardens and elasticizes.

Although the webs are strong, they are easily damaged so spiders will rebuild new ones every day. All arachnids produce and secrete silk, but not all of them spin webs. The "Poison!" segment of the exhibit features two live examples of the most treacherous species of spiders: the brown recluse and the black widow.

Using dioramas, "Spiders!" shows the range of spider sizes and habitats, a spider family tree, and freeze-dried spider specimens. There is also a 18-foot-long photomural of a meadow, shown first in natural daylight and then at night. This spider's-eye view divulges the creature's work schedule: day, night, — and swing shift.

The Museum worked with Marvel Entertainment Group to bring the traveling exhibit to Chicago. "Spiders!" provides an entertaining experience that curbs arachnophobia and dispels myths.

CAJUN MUSIC & ZYDECO

The late Clifton Chenier, the "King of Zydeco," is among the musicians, fans, clubs, and scenes of the southern Louisiana Cajun and Zydeco worlds photographed by Philip Gould over the past 20 years. "Cajun" music refers to the music of white former French Canadians who settled in the area in the 19th century; "Zydeco" is the music of black creoles in the same communities. Over the decades, each has influenced the other and both have enjoyed popular revivals since the 1950s. Gould's photographs are on exhibit through August 4.



5/7 Tuesday Friends of the Library

5:30-7:30 p.m. Museum scientists Dr. Douglas F. Stotz, Conservation Ecologist, and Dr. Debra Moskovits, director of Environmental and Conservation Programs, will present a program about their new book, *Neotropical Birds*. Call (312) 322-8874.

5/11 Saturday Symposium: The Andes Region

8 a.m.-5:15 p.m. The Andes Mountains will be the topic of discussion at the 19th Annual Field Museum Spring Systematics Symposium. The symposium brings together colleagues from throughout the U.S. and South America to examine the region's physical, biological, and anthropological interactions over time. The symposium will comprise two four-hour sessions of presentations, culminating with a reception for attendees. Open to the public. For registration and other information contact the Geology Dept. at (312) 922-9410, ext. 293 or e-mail to symposia@fmnh.org.

5/15 Wednesday Founders' Council Luncheon

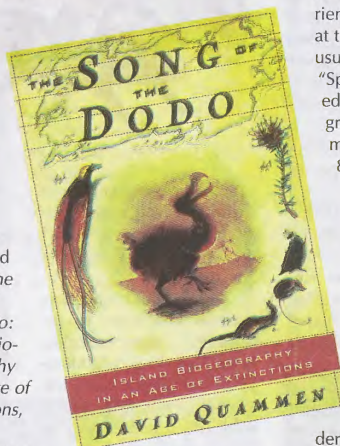
Noon-1:30 p.m. Dr. Scott Lidgard of the Geology department will present a slide lecture about trilobites at a Loop Luncheon for Council members. For information about the Founders' Council or this event call the Founders' Council office at (312) 322-8868.

5/18-19 Sat., Sun. Geography Festival

Travel the world over with Museum scientists at the Geography Festival. The Field Museum's Dr. Meenakshi Wadhwa and Dr. Greg Buckley will share information on their research on meteorites and fossil mammals of Madagascar, respectively. See opposite page for details. Call (312) 922-9410, ext. 658 for more information.

5/18 Saturday Lecture: The Song of the Dodo

2 p.m. Join author David Quammen as he discusses his recently published book, *The Song of the Dodo: Island Biogeography in an Age of Extinctions*, using a unique combination of science, historical narrative and travel commentary. Copies of the book will be available for purchase and signing after the lecture. \$10 (\$8 members). Call (312) 322-8854 for information.



5/24-26 Friday thru Sunday Ceramics Conference

How did eating and drinking customs affect ceramics? What was the role of ceramics in the religious and secular rituals of Asia? What influence have collectors and connoisseurs had on the work of potters? The Asian Ceramics Conference will explore these ideas and more. The conference will feature papers and discussions by international specialists that will focus on functional and other influences on the design of Asian ceramics during the last two thousand years. For more information call (312) 922-9410 ext. 832 or 444. This conference is open to the public.

5/24-27 Friday – Monday Exhibit Opens: Spiders!

Come face-to-face with live spiders and a live Spider-Man! The Marvel Group superhero will be at the Museum for four days to greet visitors, sign autographs, and explain everything you've wanted to know about spiders. Discover how spiders use their venom and the amazing way they eat their food. There is an additional \$3 (\$1 members) admission charge for this exhibit. See "Spiders!" on the previous page for more details or call (312) 922-9410 for more information. These private showings are scheduled for Museum members and donors:

FIELD DONORS

Wednesday, May 22 — 5:30 p.m.-7:30 p.m.
All donors at the Field Contributor, Adventurer, Naturalist, and Explorer levels are invited. Call (312) 322-8874.

WOMEN'S BOARD AND FOUNDERS' COUNCIL

Tuesday, May 28 — 4 p.m.-8 p.m.

This is an opportunity for members of both groups to bring their children and grandchildren. Call the Women's Board at (312) 322-8870 or Founders' Council at (312) 322-8868 for further information.

THE CENTENNIAL CLUB

Tuesday, June 4 — 2 p.m.-4 p.m.

The Club hosts a reception and special viewing by invitation only for members of 30 years or more. For more information call (312) 322-8871.

INDIVIDUAL AND FAMILY MEMBERS: See schedule, page 4.

6/7 Friday & Saturday Family Overnight

5:45 p.m. Friday to 9 a.m. Saturday. Experience a night of discovery and exploration at the Field Museum! In addition to the usual activities, enjoy the summer exhibit "Spiders!" after hours. Registration is limited. Adults accompanied by children grades 1-6. \$43 per participant (\$38 per member participant). Call (312) 322-8854 for registration information.

6/9 Sunday Nature Network

8:30-11 a.m. Nature Network members will go behind the scenes of the "Spiders!" exhibit. View the Insect Division's collection of spiders and get a first-hand account of Museum spider-lady Petra Sierwald's research. For more information contact the Nature Network office at (312) 322-8881.

6/12 Wednesday The Italian Vineyard

6:30-8 p.m. Join Mary Ross, director of The Wine Academy of the North Shore, for a taste of Italian wines. Learn why Italian wines are praised the world over for their unique character. \$25 (\$20 members) Contact the Membership Dept. for more information (312) 922-9410, ext. 453.

6/27-30 Thursday – Sunday Japan Festival

In addition to the wide variety of exhibitions showcasing the exquisite craftsmanship of Japanese artists and artisans (see opposite page), the following is a schedule of live performances:

Thursday June 27

2-4 p.m. A film show for children will run in the Simpson Theatre in conjunction with Kid's Corner, which features special events for children.

Friday June 28

11 a.m. Mikoshi Bearers, a popular group from Osaka, Japan, will stage street performances with a 450-pound Mikoshi, a portable shrine. The group will carry the shrine from the Museum to Grant Park for the Taste of Chicago. Performances also at 2:30 p.m. and 3:15 p.m.

11 a.m.- 4 p.m. Film show for children

Noon and 3 p.m. Minato-Kappore, a 10-member dance troupe, will perform modern street dances that are featured at Japanese festivals. Performances also at the Taste of Chicago.

Saturday June 29

11 a.m.- 4 p.m. Film show for children.

11 a.m. Mikoshi Bearers. Performances also at 2:30 p.m. and 3:15 p.m.

Noon and 3 p.m. Minato-Kappore

Sunday June 30

11 a.m. Mikoshi Bearers. Performances also at 2:30 p.m. and 3:15 p.m.

Noon and 3 p.m. Minato-Kappore

Friday thru Sunday enjoy two daily performances in Stanley Field Hall by Yzen Han Taiko, a group of five women playing the Taiko (Japanese drum); and Koto and Shyakuha, traditional Japanese music, with Wakayagiryu, traditional Japanese dance.

For further information, call (312) 335-1263.



GEOGRAPHY AT THE FIELD, MAY 18 & 19

Geography is more than memorizing state capitals and national exports. An understanding of physical and human geography is essential to grasping the evolutionary processes, environmental issues, and the social and political issues that impact today's world. On a more personal scale, an understanding of geography can help us get from here to there, and once we are "there," will help us appreciate the local landscape and culture.

The Field Museum is a perfect place to go globe-trotting. A short walk can take you from the urban bustle of Dakar, Senegal in Africa to the icy Arctic, home of the polar bear. Museum scientists also travel the globe in their research. Dr. Meenakshi Wadhwa will talk about her research on meteorites, and Dr. Greg Buckley will show some of the fossil mammal specimens he collected in Madagascar.

Live performances take you on a musical tour of the world. Raices del Ande plays music with its roots in Europe and the Americas. The wind and percussion instruments of the Andean people combine with stringed instruments brought from Spain. African-American musician Musa Mosley will demonstrate how African rhythms traveled to the Americas and

are now imbedded in many types of "American" music.

Families can explore the world with map games, including computer games. Visitors of all ages can learn a string game, then journey to an area of the world where that game is played. String games are found among such widely scattered groups as the Inuit peoples of Alaska and the Maori people of New Zealand. Visitors can pick up "passports" which help them explore the halls through a self guided tour. Highlight tours of the exhibit hall will also be given.

SUMMER FIELD GUIDE COMING!

Look in your mailbox in mid-June for the next listing of programs for adults and children taking place from July – September. A family overnight in August, programs with Navajo weaver Pearl Sunrise and renowned Navajo flutist R. Carlos Nakai, and a talk by Wade Davis, author of the recently published book, *One River: Two Generations of Scientific Adventures in the Amazon Rain Forest*, are just a few of our featured programs and guests. Call (312) 322-8854 for more information or a copy of the latest *Field Guide* brochure.

EXPLORING THE AMERICAS:
BEHIND THE SCENES AT THE FIELD MUSEUM

Join Museum scientists for a special behind-the-scenes exploration focusing on the Americas by visiting scientific collections and research areas at The Field Museum. Housing over 21 million specimens and artifacts that illustrate the world's cultural, biological and geological diversity, you will see the collections first hand and talk with scientists about how the collections are prepared, managed and used for scientific research and interpretation in exhibits. The Museum's new behind-the-scenes tours for adults will take place on Tuesday, June 11 and Thursday, June 13 from 10 – 11:30 a.m. or 1:30 – 3 p.m. each day, accompanied by light refreshments. Group size is limited to 15 to allow for a personal and in-depth experience. Preregistration is required. The fee is \$20 per person for members; \$25 for non-members. To register call (312) 322-8854. Your reservation will be confirmed by mail. As botany curator William Burger has put it, "Collections are the data base that allow us to make statements about species

concepts, species distributions, species richness, and biogeographic relationships. Without these collections, we could not really understand the living world."

JAPAN FESTIVAL JUNE 27-30

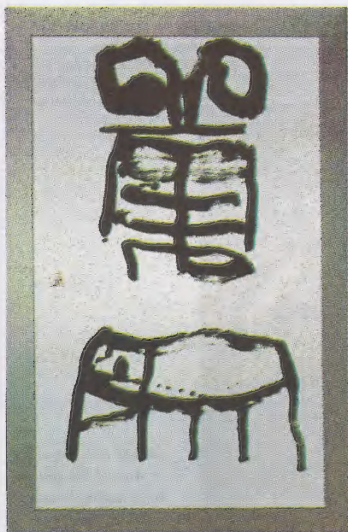
As part of its 30th-anniversary celebrations, the Japanese Chamber of Commerce and Industry of Chicago (JCCC) has organized a Japan Festival at the Museum from Thursday, June 27 through Sunday, June 30. The Festival will feature a variety of cultural events, including music, dance, and art exhibitions.

Beginning at 2 p.m. on Thursday in Montgomery Ward Hall, the festival will open with a symposium to examine ways that Japan and the U.S. can cooperate to deal with global problems. The opening day will conclude with a gala dinner from 6–9 p.m. in Stanley Field Hall. Admission to the dinner is by invitation only.

There will be performances and exhibitions for every age level, including children. A schedule of performances is on the opposite page. The exhibitions will showcase the exquisite craftsmanship of Japanese artists and artisans.

The Field Museum is co-sponsoring this event with the City of Chicago. Mayor Richard M. Daley is honorary chairman of the festival. The festival is free with regular admission to the Museum.

Below left, a work by famed calligrapher Yukoku Nozaki, a master of the 3,000-year-old art form. Japanese calligraphy has taken a new turn due to a movement towards expressing modern sensibilities. Below, the Mikoshi Bearers of Osaka carry their 460-pound shrine during a street festival.

Become a Member
of The Field Museum
and receive these benefits:

- Free general admission
- Free priority admission to "Life Over Time"
- Priority admission to special exhibits
- Free coat checking and strollers
- Invitation to Members' Night
- Free subscription to *In the Field*
- 10% discount at all Museum stores
- 10% discount at Picnic in the Field
- 13-month wall calendar featuring exhibit photographs
- Reduced subscription prices on selected magazines
- Use of our 250,000-volume natural history library
- Discount on classes, field trips, and seminars for adults and children
- Members-only tour program
- Opportunity to attend the annual children's Holiday Tea
- Children's "dinosaur" birthday card

MEMBERSHIP APPLICATION

New Members only. This is not a renewal form.

- ☐ Please enroll me as a Member of The Field Museum

Name _____

Address _____

City _____

State _____ Zip _____

Home phone _____

Business phone _____

GIFT APPLICATION FOR

Name _____

Address _____

City _____

State _____ Zip _____

Home phone _____

Business phone _____

GIFT FROM

Name _____

Address _____

City _____

State _____ Zip _____

Home phone _____

Business phone _____

MEMBERSHIP CATEGORIES

- ☐ Individual – one year \$35 / two years \$65

- ☐ Family – one year \$45 / two years \$85
(Includes two adults, children and grandchildren 18 and under.)

- ☐ Student/Senior – one year \$25
(Individual only. Copy of I.D. required.)

- ☐ Field Contributor – \$100 - \$249

- ☐ Field Adventurer – \$250 - \$499

- ☐ Field Naturalist – \$500 - \$999

- ☐ Field Explorer – \$1,000 - \$1,499

All benefits of a family membership — and more

- ☐ Founders' Council – \$1,500

Send form to:
The Field Museum, Roosevelt Road at Lake Shore Drive, Chicago, Illinois 60605

VISITOR PROGRAMS

Wednesday, May 1

9am - 12 noon **Owl Pellets** activity. Learn about the dissection process that scientists use to discover the contents of a predatory bird's diet.

Thursday, May 2

9am - 12 noon **Arthro-Cart** activity. Discover arachnids, bugs and other arthropods during a visit to the Arthro-Cart.

12:15pm **The Aztec, The Maya and Their Predecessors** tour. Learn about the diverse and complex Pre-Columbian cultures of Mexico and Central America.

Friday, May 3

10am - 1pm **Rocks and Minerals** activity. Try and match minerals with the familiar products they produce.

Saturday, May 4

11am - 3pm **Amazing Maize** activity. The Miracle Crop! a *mano* and *metate* have been used for hundreds of years to grind corn. See how it is done and then try it yourself!
1p.m. **The Early Maya Civilization** tour. Explore the Maya's ancestors' art, architecture, technical innovations, math and writing systems, and find out more about the two million people in Mexico, Guatemala, Belize, El Salvador and Honduras who still speak the Mayan language and maintain Mayan traditions.
1:30pm **Tibet Today and Bhutan, Land of the Thunder Dragon** slide lecture. A slide presentation where you will learn more about the plants and animal life of this semi-tropical island whose only native mammals were bats!

Diane Alexander White / GN87675.14



Musa Mosley demonstrates how African rhythms traveled to the Americas during Geography Festival, May 18-19.

Sunday, May 5

10am - 1pm **African Metals** activity. Learn about the ancient African art of metallurgy.
11am & 2p.m. **Highlights of the Field Museum** tour.
11:45am **Inside Ancient Egypt** tour. Explore the mysterious empire of Ancient Egypt that has fascinated the world for hundreds of years.
1:45pm **Into the Wild** tour. Visit classic dioramas of animals. Learn their history and techniques of mounting by the great Carl Akeley, and consider what message this legacy of natural history has for us.

Tuesday, May 7

9am - 12noon **Owl Pellets** activity.

Wednesday, May 8

9am - 12 noon **Arthro-Cart** activity.

Thursday, May 9

11am - 2pm **Tlingit Weaving** demonstration by artist Teri Rofkar of Sitka, Alaska. A modern Northwest Coast artist demonstrates traditional basket weaving and an ancient technique of Ravens' Tail weaving.
12:45pm **The Aztec, The Maya and Their Predecessors** tour.

Friday, May 10

10am - 1pm **Pareus** activity. Try out a Pacific Island style as you wrap a pareu-style dress.

Highlights of The Field Museum

tours are offered Monday Through Friday, at 11:00 a.m. and 2:00 p.m. Visit some of the exhibits which make this museum one of the world's greatest. Find out the stories behind the exhibits. Check weekend listings below for Saturday and Sunday Highlights tours.

Saturday, May 11

11am **Stories from Around the World**. Travel to distant lands through the magic of storytelling.
11am & 2pm **Highlights of The Field Museum** tour.
11:30am & 2:30pm **The Aztec, The Maya and Their Predecessors** tour.

Sunday, May 12

11am & 2pm **Highlights of The Field Museum** tour.

Tuesday, May 14

9am - 12noon **Owl Pellets** activity.

Wednesday, May 15

9am - 12noon **Arthro-Cart** activity.

Thursday, May 16

12:15pm **The Aztec, The Maya and Their Predecessors** tour.

Friday, May 17

10am - 1pm **Lava** activity. Now that they're cool, touch some of the substances produced by a volcano.

Saturday, May 18

11am **Highlights of The Field Museum** tour.
11am - 3pm **Geography Festival**. Ongoing demonstrations, activities and performances. An understanding of physical and cultural geography is essential to understanding the evolutionary processes, environmental issues, and the social and political issues that impact today's world. Performances:
12 noon **Raíces del Ande**. Music of the Andes and other Latin American countries.
1pm **Musa Mosley**. African Drums

Sunday, May 19

10am - 1pm **Adinkra** activity. Traditional designs from Ghana represent different African proverbs. Stamp your favorite!
11am - 3pm **Geography Festival** see Saturday, May 18.
Performance:
12noon **Raíces del Ande**. Music of the Andes and other Latin American countries.
11am & 2pm **Highlights of The Field Museum** tour.
11:30am & 2:30pm **The Aztec, The Maya and Their Predecessors** tour
12noon & 1:30 p.m. **Fireballs & Shooting Stars** tour. Explore the secrets locked in meteorites that hold keys to understanding our universe.
1:00pm. **Los Aztecas, Los Mayas y sus Predecesores tour (en español)**.

Thursday, May 23

12:45pm **The Aztec, The Maya and Their Predecessors** tour. Aprenda más sobre la complejidad y diversidad de las culturas precolombinas de México y Central América.

Friday, May 24 - 27

"Spiders!" Exhibit opening programs See "Calendar of Events" page.

Saturday, May 25

11am & 2pm **Highlights of The Field Museum** tour.
11:30am & 2:30pm **The Aztec Empire and Their Predecessors** tour. Find out about the diversity of languages and cultures from this region and how these cultures built a mighty empire founded 3,000 years ago.
1:30 p.m. **Tibet Today slide lecture and a Field Museum Tibet exhibit Tour**. A slide presentation which takes you to Lhasa and other places now open to tourists in Tibet. A guided tour through the Tibet exhibit will be offered after the lecture.

Sunday May 26

1am & 2pm **Highlights of The Field Museum** tour.

1pm **Fireballs & Shooting Stars** tour. 11:30am & 2:30pm **The Aztec Empire and Their Predecessors** tour.

Tuesday, May 28

9am - 12noon **Owl Pellets** activity.

Wednesday, May 29

9am - 12noon **Arthro-Cart** activity.

Thursday, May 30

12:15pm **The Aztec, The Maya and Their Predecessors** tour.

Friday, May 31

10am - 1pm **Terrific Teeth** activity. Can teeth tell you what an animal eats? Take part in this fun activity and find out!

Saturday, June 1

11:30am & 2:30pm **The Aztec, The Maya and Their Predecessors** tour (English.)
1pm **Los Aztecas, Los Mayas y Sus Predecesores tour (en español)**.

Sunday, June 2

10am - 1pm **African Metals** activity. 11:30am & 2:30pm **The Aztec, The Maya and Their Predecessors** tour.

Tuesday, June 4

9am - 12 noon **Owl Pellets** activity.

Wednesday, June 5

9am - 12noon **Arthro-Cart** activity.

Thursday, June 6

12:45pm **The Aztec, The Maya and Their Predecessors** tour.

Friday, June 7

10am - 1pm **Sea Shells** activity. Did you know that shells were "left-handed" or "right-handed"? Discover more about different types of shells in this informative activity.

Saturday, June 8

10am - 1pm **Adinkra** activity. 11am **Stories from Around the World** storytelling.

Sunday, June 9

11:30am & 2:30pm **The Aztec Empire and Their Predecessors** tour.

Tuesday, June 11

9am - 12noon **Owl Pellets** activity.

Wednesday, June 12

9am - 12 noon **Arthro-Cart** activity.

Friday, June 14

Rock and Mineral Match activity.

Saturday, June 15

10am - 1pm **African Metals** activity. 1:30pm **Tibet Today, and a Faith in Exile** slide lecture. Learn about Tibetan refugees in India, Nepal and elsewhere. Witness the dedication ceremony of a Himalayan Buddhist chorten in Indiana by His Holiness, the Dalai Lama.

Sunday, June 16

11:30am & 2:30pm **The Aztec, The Maya and Their Predecessors** tour.



Tuesday, June 18

9am - 12noon **Owl Pellets** activity.

Wednesday, June 19

9am - 12noon **Arthro-Cart** activity.

Thursday, June 20

12:45pm **The Aztec, The Maya and Their Predecessors** tour.

Friday, June 21

10am - 1pm **Pareus** activity.

Saturday, June 22

10am - 1pm **Adinkra** activity. 11am **Stories from Around The World** storytelling. 11:30am & 2:30pm **The Aztec, The Maya and Their Predecessors tour** (English.)
1pm **Los Aztecas, Los Mayas y sus Predecessors tour (en español)**.

Sunday, June 23

11:30am & 2:30pm **The Aztec Empire and Their Predecessors** tour.

Tuesday, June 25

9am - 12noon **Owl Pellets** activity.

Wednesday, June 26

9am - 12noon **Arthro-Cart** activity.

Thursday, June 27

12:15pm **The Aztec, The Maya and Their Predecessors** tour.

Friday, June 28

10am - 1pm **Lava** activity.

Saturday, June 29

1:30pm **Tibet Today & Bhutan, Land of the Thunder Dragon** slide lecture.

Sunday, June 30

11:30am & 2:30pm **The Aztec, The Maya and Their Predecessors** tour.

Daniel F. & Ada L. Rice

Wildlife Research Station
Learn more about the animal kingdom through videos, computer programs books and activity boxes. Open daily 10am-4:30pm

Webber Resource Center

Native Cultures of The Americas
Use books, videos, tribal newspapers and activity boxes to learn more about native peoples. Open daily 10am-4:40pm

Place for Wonder

Touchable objects let you investigate fossils, shells, rocks, plants, and items of daily life in Mexico. Weekdays: 1-4:30pm Weekends: 10am-4:30pm

Pawnee Earth Lodge

Visit a home of mid-19th century Pawnee people. Learn about these Native Americans and their traditional life on the Plains. Weekdays: Program at 1pm Weekends: 10am-4:30pm

Ruatapupuke:

A Maori Meeting House
Discover the world of the Maori people of New Zealand at the treasured Maori Meeting House. Daily 10am-4:30pm

Shanta tells the story of Anansi the spider-hero during opening days of "Spiders!" May 24-27

AMAZONIA...

(Continued from page 1)

imals, and human-animal combinations, along with geometric and possibly astronomical designs. According to Roosevelt, they may be among the oldest cave paintings yet found in the Americas.

"Our findings suggest that we need to rethink the Paleoindian radiation," Roosevelt says. "Paleoindian" refers to the first people who populated the Americas, beginning about 11,200 years ago and lasting nearly 3,000 years.

The traditional view has held that the first migrants came across the Bering straits from Asia, settled in the North American high plains and southwest, then moved into South America down the Andean mountain chain. According to this theory, the Paleoindians were specialized big game hunters who lived in open, temperate habitats; they did not penetrate the tropical rain forests, Paleoindian experts believed, because plant food and game were too scarce.

Other scholars believed they had found even earlier Paleoindian sites, representing a less specialized subsistence, in the Andes and in subtropical areas east of the Andes. Though their views have not yet been widely accepted, the new site tends to support some aspects of their thinking.

"We found strong evidence that a culture quite distinct from the North American Paleoindian culture, but contemporary with it, existed more than 5,000 miles south, in this humid, tropical habitat," Roosevelt explains. "This culture didn't emphasize big game hunting. The charred food remains we found point instead to broad-spectrum foraging." The meticulously dated

remains include many fruits and woods from common tropical forest trees and palms, along with fragments of bone from large forest game and fish, birds, reptiles, amphibians, smaller fish and game, and shellfish from the Amazon floodplain.

Overall, the evidence from Caverna da Pedra Pintada suggests that Paleoindians visited the cave regularly for 1,200 years. While there they foraged food from the rain forest and river, produced distinctive, finely made spear points and wood-working tools chipped from stone, and painted stylized images on the walls. "We've drawn this picture from a wide range of evidence," Roosevelt notes.

"We worked with colleagues in laboratories around the world, using a variety of dating techniques on the different biological and cultural material, and the 69 resulting dates fall close together between about 11,200 and 10,000 years ago."

Some scholars believe that humid tropical environments were an insurmountable barrier to early human cultural development, which they believe took place only in cooler or drier habitats. The new research suggests that it's time to reconsider this assumption.

The plant remains from Caverna da Pedra Pintada include Brazil nuts, palm seeds, and fruits from a variety of other trees common in the humid tropical forests and woodlands of the Amazon. No remains of grasses or trees specially adapted to the temperate habitats or arid areas were found in the cave. The animals, too, were typical of the humid tropics. And yet, the early hunter-gatherers flourished here for a long time.

"It seems Paleoindians were able to adapt to a broader range of habitats than has been thought," Roosevelt says. "Amazonia, far from a dead end, fostered a dynamic cultural trajectory over thousands of years."

Foraging bands, she explains, gave way to fishing villages where pottery-making developed. Indeed, the pottery found in the cave and nine other nearby sites, dating back as far as 7,500 years, is the earliest yet found in the Americas. Later, Roosevelt says, agriculture was adopted, the use of pottery spread, and complex societies were established in the area — until they were decimated and dispersed by the European conquest.

Roosevelt believes it's time to reevaluate the role of tropical forests, submerged coastlines, and other neglected ecological zones in early human evolution around the world. "Unless we look at the whole range of habitats," she points out, "we'll find only what confirms existing theories."

The reason Paleoindian cultures hadn't been confirmed in the tropical rain forests is simple, Roosevelt posits: No one looked hard enough.

Roosevelt first realized the potential importance of this area while looking through museum collections. Initially, she noticed finely made spear points that didn't fit the later cultures with which they were identified. She also discovered references to finds of other tools and cave paintings in the area. The sites, first described by natural scientists in the mid-nineteenth century, had been explored more recently by archeologists and speleologists. But no one had yet dug there.

"When I went to Monte Alegre, I found that people were very familiar with the spear points, the caves, and



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other rock art sites," Roosevelt recalls. "Nelsi Neif Sadek, an ecology teacher who is now Secretary of Culture, brought us to the cave. There Lazaro Ribeiro, a 'forest savant' from a small village near the cave, helped identify most of the species that we excavated from the layers."

Another assumption being re-evaluated, says Roosevelt, is the theory that the North American Paleoindians were primarily big-game hunters. Some scholars now suggest that these early North Americans, like their South American contemporaries at Monte Alegre, had broader economies, including plant collecting, fishing, and small game hunting. The evidence may have been biased toward larger species, Roosevelt speculates, because earlier archaeologists didn't use the specialized finescreening techniques needed to recover the remains of plants and small bones.

"The emphasis on big game hunting has some serious implications," Roosevelt notes. "For example, sociobiologists have used our supposed descent from hunters to support a genetic basis for human behaviors such as aggression and certain gender roles — men bringing home the food, women tied to domestic chores."

But, she says, these theories are often based on backward extrapolation from recent cultures. "If you really want to know about early cultures," she says, "you have to go back and look at those cultures, not just at modern people."

The food remains in the cave, for example, include not only small but very young animals — an indication that women and children, as well as men, could have participated in food-getting. One more lesson Roosevelt draws from the Amazon — and perhaps the most important for today's policy makers — concerns the interaction between human settlements and tropical forests.

"Much recent research in the Amazon shows that so-called 'virgin' tropical forests were in fact settled and cultivated for many thousands of years," she says. "They are actually anthropogenic forests. Look at the diversity patterns we see today, like the clustering of cashews, Brazil nuts, certain palms — species with great economic importance. Some of these patterns came about precisely because prehistoric human activities altered the topography and the soil and changed the vegetation."

What this tells us, Roosevelt contends, is that it doesn't necessarily make sense to move native people out of the forest to make a nature reserve. People on a small scale, she says, have long been part of the landscape, an integral component of the ecological processes we value.

"It's only when outsiders subsidize exploitative activities on a large scale that we see the type of destruction that's eradicating tropical forests in some areas today," Roosevelt says. "Native people and their ancient occupation sites hold a great deal of knowledge about tropical ecosystems. Their continued presence on the land is critical for the survival of the habitat."

Above: A rock painting at Serra da Lua (Mountain of the Moon) in Monte Alegre, Brazil, depicting concentric circles and an inverted figure with a rayed head. **Left:** Another rock painting at Serra da Lua depicts human figures. The Monte Alegre paintings portray animals, humans, and composite creatures along with geometric and possibly astronomical designs. The paintings appear to date back more than 11,000 years.



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Funding for Anna Roosevelt's project was provided by the John D. and Catherine T. MacArthur Foundation, the National Endowment for the Humanities, and the National Science Foundation.

SPIDER RESEARCH AT THE MUSEUM

By Rhonda Jones

Field Museum scientists along with trained volunteers will share information with "Spiders!" exhibit-goers about how the Museum collects and preserves spiders for its own collection and research activities. Curators, scientists, and museums all over the world borrow from The Field Museum's spider collection.

The Museum's collection is worldwide in scope and includes specimens collected by Marshall Field I, himself. Among the myriad types of spiders the Museum has amassed over the years is a family of tropical spiders, *Tetra bleumadie*, and the armored spider (so named for its heavy exoskeleton, in relation to other spiders'). It was The Field Museum that found the world's smallest mature tarantula—about 3mm long.

Scientists have discovered more than 30,000 species of spiders with as many as 300,000 specimens from those species represented in the Museum's collection.

One element of the "Spiders!" exhibit is a recreation of Petra Sierwald's Field Museum laboratory. She is the Museum's arachnid specialist. The interactive tour of "Spider Lab," as it is called, puts the audience side-by-side with Sierwald, via life-size cut-outs, as she goes from collecting spiders in the field to publishing new research findings.

Sierwald's current spider work includes classifying the different species of brown widow spider by their behavior patterns during courtship and mating. The brown widow performs the same act as the notorious black widow spider. The female of both deadly species kills the male after courtship and mating. The male brown widow is as much as ten times smaller than the female. In her lifetime, the female will mate several times whereas the male will die after mating only once, living for only a few short weeks. In her research, Sierwald is trying to figure out whether the brown widow's mating system, contrary to that of most spiders, is guided by male choice. She is also looking to discover how the male brown widow makes his mating choice and the relationship of his choice

to the evolution of the male widow spider's astoundingly complex sexual organs.

Catching spiders and other insects is not very difficult, considering that there can be as many as two million spiders per acre of land. Field Museum collectors generally use the Berlese method for collecting spiders and other insects. With this technique, the collectors take leaf litter and place it over the mouth of a special funnel. Then they shine a bright light on the litter to draw the insects out. The insects fall through the funnel and into a container filled with alcohol. Spider specimens preserved in alcohol will last for centuries. While spiders were always among the insects that Museum curators gathered in the field, interests in sorting and separating them from Berlese samples did not mount until some 10-15 years ago. This collecting method has produced some of the most scientifically interesting spiders.

Spiders are everywhere. They can be found scaling along mountain tops, burrowing deep within caves, crawling through deserts and marshlands alike. In fact, some of the spiders in the Museum's collection come from the Chicagoland area and can be found atop some of the area's tallest "peaks" like the Sears Tower and John Hancock Building. Dan Summers, manager of the insect collection, said these "high-rise" spiders, as they are so aptly called,



George Papadakis / GN87706.27c

can out-number the Chicago population 200,000 to 1 in the summer time. Lillian Ross posthumously bequeathed her collection of Chicagoland spiders to the Museum 30 years ago. One former Field Museum curator Hank Dybas spent much of his service time during World War II collecting spiders for the Museum.

Some of the species in the Museum's collection are now extinct, and Sierwald considers these to be all the more valuable. The extinct species can serve as guides for comparison and as resources for DNA analysis that can add limbs to the tree of evolution. Even though a spider's body doesn't fossilize easily, there have been fossils of spiders found in rocks that date back 300 million years.



Jonathan Goodington

Top right: Petra Sierwald, Field Museum spider specialist, introduces young visitors to the Mexican red-kneed tarantula. A replica of Dr. Sierwald's lab is part of the "Spiders!" exhibit. At right: the common orb weaver, *Araneus cingulatus*. Among other live creatures on exhibit are the Madagascar orb weaver, a spider the size of a dinner plate; a fishing spider from South Carolina; the venomous brown recluse and black widow spiders; and a selection of common garden and house spiders.

KIDS IN FOUR STATES VISIT THE MUSEUM ELECTRONICALLY

By Rhonda Jones

With the use of interactive, two-way telecommunications technology, Ball State University and the Indiana Academy for Science, Mathematics and Humanities (both in Muncie, Indiana) took more than 8,000 elementary school students on a trip to the Field Museum on January 16, with-

out the students having to leave their schools.

Children from 266 schools in California, Texas, Indiana, and Illinois journeyed through the Museum's evolution exhibit, "Life Over Time," with a group of first-graders from Burris Laboratory School, also in Muncie, as they all experienced "Dinosaurs and More," the theme of a distance learning, electronic excursion. The Burris students were the only group actually at the Museum. The other students tagged along via satellite. This was the Museum's first experience with distance learning.

The innovative trip comprised a one-hour program featuring the first-graders, turned "Time Spies," who made believe they had dug up a bone during an excavation near their school and brought it to the Museum to investigate whether or not it was a dinosaur fossil. The field trip was broadcast live from the Museum.

The students at the remote sites watched as Field Museum geologist and program host Peter Laraba answered questions from the "Time

Spies" and, in some cases, used items from the "Life Over Time" exhibit as his aids. Step-by-step, Laraba took the group of first graders and the viewing audience through the scientific method, which involves gathering evidence, formulating a hypothesis and drawing a conclusion, in trying to decipher what prehistoric creature the bone belonged to. Ultimately, the "Time Spies" figured out that the bone was *not* from a dinosaur.

A special 800-number was set up for students to call in to Laraba during the broadcast. Students who could not get their questions through to Laraba were given his e-mail address so that they could contact him after the program.

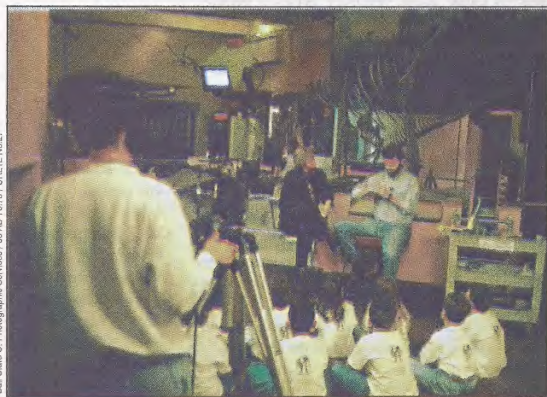
Any school that had satellite capabilities and could download the program was able to attend the field trip. The field trip complements strides made in distance learning technology.

It was made possible, in part, by a grant that the Indiana Academy received from the Corporation for Educational Communications.

The remote television production crew at Ball State provided the camera operators and other equipment to put the Museum on the air live.

"Dinosaurs and More" captured first prize from the U.S. Distance Learning Association for its innovative partnership with business and education telecommunications.

The Museum's Peter Laraba (right) and Muncie, Indiana schoolteacher Renée Huffman leading a class of first-graders through the scientific method. Students in four states participated via interactive video.



VOLUNTEER HONORS DINNER

By Anita Morgan
Searle Volunteer Coordinator

The Field Museum honored its 1995 volunteers on Tuesday, March 26 at a dinner marking the twenty-eighth year of the volunteer program. Begun in 1968 with a force of 30, the program now includes more than 450 volunteers.

At a buffet dinner in Stanley Field Hall celebrating the volunteers' accomplishments, President Willard L. Boyd and Trustee Hugo Melvoin commended them for a job well done. Mr. Melvoin introduced President-elect John McCarter who thanked the volunteers for their generous contribution to The Field Museum. Boyd presented awards to volunteers who contributed 400 hours or more, and to volunteers who have been in service for ten and fifteen years. The Searle Award for Twenty Years of Service was given to five recipients: Gwen Barnett of Visitor Services, Dodie Baumgarten of Anthropology, Margaret Martling of Botany, Sheila Reynolds of Zoology, and William Roder of Tours — an engraved crystal box from Tiffany's.

The value of volunteer service at The Field Museum cannot be overstated. From varied backgrounds and ages, the volunteers play a vital role in the life of the Museum. They work with paid staff to meet our growing demands for effective programming in research, collections, and public learning.

In the Department of Education, 300 of our 425 volunteers were responsible for staffing the resource centers of Africa, Rice and Webber; they gave programs in the Maori Meeting House and the Pawnee Earth Lodge; school tours in the exhibit halls of Africa, Egypt, Native American Peoples, Maritime Peoples of the Arctic and Northwest Coast, the Aztec and Maya exhibits, and the environmental halls. Volunteers provided information for visitors in "Life Over Time," the Place for Wonder, and in Stanley Field Hall with hands-on activities.

In our behind-the-scenes areas, volunteers assisted with collections management and research in the departments of Anthropology, Botany, Geology, and Zoology. They identified and labeled specimens, accessed reading sources, prepared study skins, generated computer data, catalogued accessions, and processed loan materials. Other volunteers lent their talents in the departments of Computing, Exhibits, the Library, the Museum Store, Photography, Public Relations, Tours, and Visitor Services.

With responsible attentiveness to The Field Museum's research and public learning, our volunteers have shown their commitment by contributing over 67,000 hours in 1995 — the equivalent of 37 full-time staff members.



John Weisen | GN87762.114c



John Weisen | GN87760.264c



John Weisen | GN87760.114c



John Weisen | GN87762.114c

Above: Volunteers in "herps," the Division of Amphibians & Reptiles, with curator Robert Inger, right. From left, Sophie and Bob Brunner, Ingrid Fauci, Michelle Brown, and Fui Lian Inger. At far left with flower arrangement, Halina Goldsmith, a 15-year veteran. Receiving his Tiffany award from President Boyd, middle, is 20-year man Bill Roder. Volunteers Laura Dunlap and Stephanie Roman, left, decided to make the evening a festive fancy-dress occasion. Below left, Gwen Barnett, who was unable to attend the dinner, received her Tiffany award for 20 years' service from President Boyd in his office.

SPECIAL ANNIVERSARIES

Twenty Years
(Searle Award for Twenty Years)

Gwen Barnett, Visitor Services
Dodie Baumgarten, Anthropology
Margaret Martling, Botany
Sheila Reynolds, Zoology
William Roder, Tours

Fifteen Years

Lucia Barba, Education
Halina Goldsmith, Education
Carol Kacin, Education
Zinette Yacker, Education

Ten Years

Robert Gowland, the Library
Dennis O'Donnell, Education

Volunteers With 400 Hours Or More:

Name	Hours	Department and Supervisor
LaVerna Evans	932	Education, Mara Cosillo-Starr
John Ososky	735	Zoology, William Stanley
George Wolnak	700	Education, Peter Laraba and Anita Morgan
Irene Broede	670	Education, Peter Laraba
Robert Gowland	608	Geology, Lance Grande
Jack MacDonald	602	Anthropology, Christine Gross
Leonore Levit	600	Library, Kenneth Grabowski
Rosemary Kalin	589	Anthropology, Robert Welsch
Dennis Kinzig	570	Education, Rosaura Boone
Catalina Larios	564	Education, Mara Cosillo-Starr
Warren Valsa	562	Education, Peter Laraba
Ross Chisholm	560	Education, Peter Laraba
Debbie Jargstorf	545	Education, Mara Cosillo-Starr and Peter Laraba
Joan Conner	533	Education, Rosaura Boone
Grace Takata	512	Education, Mara Cosillo-Starr and Peter Laraba
Margaret Martling	506	Botany, William Burger
Halina Goldsmith	500	Education, Mary Ann Bloom
Carolyn Moore	493	Education, Mary Ann Bloom
Armand Littman	463	Anthropology, Bennet Bronson
Teresa Hicks	451	Zoology, John Slapcinsky
Beth Spencer	438	Education, Carolyn Blackmon
Mildred Frank	436	Botany, John Engel
Robert Brunner	434	Education, Mary Ann Bloom and Peter Laraba
Sophie Ann Brunner	434	Education, Mary Ann Bloom and Mara Cosillo-Starr
Fui Lian Inger	412	Zoology, Alan Resetar and Kevin Swagel
Ingrid Fauci	408	Zoology, Alan Resetar and Harold Voris

TRUSTEE HUGO MELVOIN'S REMARKS TO VOLUNTEERS

I want to identify one special aspect of your work that may not have occurred to you. That aspect goes beyond the specific jobs you have performed and relates to your commitment, your loyalty, and, above all, to what I call your *validation* of Field Museum's mission. As I see it, the fundamental work of our Museum is measured and reinforced by your presence every time one of you enters the Museum.

It takes nothing away from the work of the Trustees and the outstanding staff of The Field Museum to emphasize that your validation of their work is critical to the well-being of the Museum. . . . It takes guts and lots of hard thought to make the changes needed to stay on the cutting edge of science and exhibition. But who can tell us whether we're still on the right track? I say it's our volunteers who provide this vital function. By your willingness to come back week after week, year after year, your presence and your comments tell us when we are stumbling as well as when we are doing something right. Collectively, you comprise a unique group. You don't come for the pay; and we can't force you to come if you're not satisfied with what you are doing. To all of the publics to whom we owe an annual accounting, you are the most important in my book.



FIELD MUSEUM TOURS

312 / 322-8862

Islands of the Gods:

A Voyage in the Aegean

The Aegean is the birthplace of the gods. Zeus was born on Crete while Apollo and Artemis were born on Delos. Helios was celebrated at Rhodes with the Colossus, one of the wonders of the ancient world. Naxos was a center of the cult of Dionysus. The hero Perseus, slayer of the Medusa, grew to manhood on Serifos. And out of Crete's labyrinthine Palace of Knossos emerged the myth of Theseus and the Minotaur. Now you can experience these legendary sites on a magnificent autumn voyage aboard a beautiful new yacht.

To begin this extraordinary voyage, we spend two nights in Athens. The entire history of Greece is reflected in the temples, agora, and museum collections of this ancient capital. If you have never been to Athens, you may be overwhelmed by the astonishing number of magnificent classical treasures it possesses. And if you are a return visitor, here is an opportunity for you to re-acquaint yourself with the Parthenon and the Agora, or perhaps to strike out on your own and see something new.

Then board the *Lady Caterina*, a magnificent new 48-passenger yacht launched in September 1995, and begin an unforgettable voyage to the great islands that have always been the stellar attractions of the Aegean, as well as those unspoiled, undeveloped, out-of-the-way islands that only fishermen and yachtsmen know.

You'll explore the perfect medieval town of Rhodes, see 900 years of Byzantine treasures at the Monastery of Khosoviotissa on Amorgos, enjoy spectacular views from the village of Phira on Santorini, and wander through King Minos' Palace at Knossos.

But you'll also explore traditional villages on Karpathos that have not been spoiled by tourism. On little Astipalea, you'll be the guests at a *glendi*, an island feast with traditional food and drink. And you'll be one of the very few visitors ever to visit the delightful villages on the islands of Siphnos and Serifos.

In keeping with its theme, Islands of the Gods: A Voyage in the Aegean, the tour ends on the legendary island of Crete. Here you will settle in for three nights at the superb Hotel Porto Elounda Mare, the best hotel on the island, where you'll enjoy beautiful views of Mirafello Bay from your private bungalow.

From the moment you step aboard *Lady Caterina*, you'll know that you have found something special. This lovely yacht was designed especially for private cruises. With only 48 guests accommodated aboard, *Lady Caterina* is like chartering your own private yacht—but at a fraction of the cost. *Lady Caterina* is an ocean-going vessel equipped with state-of-the-art stabilizers and is certified for world-wide cruising.

Here is a rare opportunity to return to the islands where Greek mythology was born. Join us aboard *Lady Caterina* during the golden days of autumn on a handcrafted voyage to the lands of gods and heroes.



Special Announcement:

National Parks of the West

Our original trip is sold out, but we have obtained more space on another luxury train departure. August 28 – September 6, 1996. \$3,990 – \$6,450 per person depending on accommodations.

Adventures in Yemen & Oman

October 8 – 22, 1996. A stunning tour of some of the most remarkable architecture in the world — plus a night on the Wahiba Sands, an inland desert traversed by Bedouin: we'll dine under the stars around a fire, then settle down for the night in carpeted tents. \$6,395 per person.

Watch for: Antarctica and the Falklands aboard the *MS Hanseatic*
January 30 – February 13, 1997